

## Datasheet: MCA4770GA

<b>Description:</b>	MOUSE ANTI HUMAN TALIN-1
<b>Specificity:</b>	TALIN-1
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	97H6
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1/25 - 1/200
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting	▪			
Immunofluorescence (2)	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

**(2) Methanol treatment is required prior to antibody staining**

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rabbit

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - liquid

<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml
<b>Immunogen</b>	his-tagged polypeptide containing residues 489–911 of mouse talin1.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9Y490</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">7094</a> TLN1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	KIAA1027, TLN
<b>RRID</b>	AB_10675618
<b>Fusion Partners</b>	Spleen cells from immunized Balb/c mice were fused with cells from the NS0 murine myeloma.
<b>Specificity</b>	<b>Mouse anti Human Talin-1 antibody, clone 97H6</b> recognizes an epitope within the region of amino acids <a href="#">482-655</a> of human Talin-1, a high molecular weight cytoskeletal protein, linking vinculin to the integrins, thereby linking the cytoskeleton to the extracellular matrix. It is specifically found in regions of cell-substratum contact and in lymphocytes at cell-cell contact points. Talin-1 plays a role in the assembly of actin filaments and in the migration of cells such as osteoclasts and fibroblasts.
<b>Histology Positive Control Tissue</b>	Tonsil
<b>References</b>	<ol style="list-style-type: none"> <li>1. Kopp, P.M. <i>et al.</i> (2010) Studies on the morphology and spreading of human endothelial cells define key inter- and intramolecular interactions for talin1. <a href="#">Eur J Cell Biol. 89(9):661-73.</a></li> <li>2. Monkley, S.J. <i>et al.</i> (2011) Endothelial cell talin1 is essential for embryonic angiogenesis. <a href="#">Dev Biol. 349: 494-502.</a></li> <li>3. Liu, J. <i>et al.</i> (2011) Talin1 regulates integrin turnover to promote embryonic epithelial morphogenesis. <a href="#">Mol Cell Biol. 31: 3366-77.</a></li> <li>4. Debrand, E. <i>et al.</i> (2012) Mice carrying a complete deletion of the talin2 coding sequence are viable and fertile. <a href="#">Biochem Biophys Res Commun. 426: 190-5.</a></li> <li>5. Manso, A.M. <i>et al.</i> (2013) Talin1 has unique expression versus talin 2 in the heart and</li> </ol>

- modifies the hypertrophic response to pressure overload. [J Biol Chem. 288: 4252-64](#)
6. Ketscher, A. *et al.* (2014) LSD1 controls metastasis of androgen-independent prostate cancer cells through PXN and LPAR6. [Oncogenesis. 3: e120.](#)
7. Qi, L. *et al.* (2016) Talin2-mediated traction force drives matrix degradation and cell invasion. [J Cell Sci. 129 \(19\): 3661-74.](#)
8. Ichikawa, Y. *et al.* (2017) Modulation of caveolins, integrins and plasma membrane repair proteins in anthracycline-induced heart failure in rabbits. [PLoS One. 12 \(5\): e0177660.](#)

**Storage** This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

**Guarantee** 12 months from date of despatch

**Health And Safety Information** Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4770GA>  
10040

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

- Goat Anti Mouse IgG (STAR77...) [HRP](#)
- Rabbit Anti Mouse IgG (STAR12...) [RPE](#)
- Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
- Goat Anti Mouse IgG (STAR76...) [RPE](#)
- Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
- Goat Anti Mouse IgG (STAR70...) [FITC](#)
- Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)
- Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](http://bio-rad-antibodies.com/datasheets)

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